Amendments to the Claims

This Listing of Claims will replace all prior versions, and listings, of claims in the application:

(Currently Amended) An electrolysis cell comprising:

a plurality of carbon anodes, <u>each of the plurality</u> having top, bottom and side surfaces, operating in molten electrolyte in an aluminum electrolysis cell, where gas-bubbles are generated at the anode surfaces, and where alumina particles are added to the top of the molten electrolyte, wherein <u>at least one of</u> the carbon anodes have <u>has</u> at least two inward <u>non-continuous</u> slots passing through part of the anode along the longitudinal axis of the carbon anode and also passing through only one <u>of the side front-surfaces</u> of the anode, where the height of the slots is from about 45% to 80% of the anode thickness and the <u>one</u> slotted <u>side front-surfaces are is</u> disposed toward the center of the electrolysis cells-se that generated gas bubbles are directed toward the alumina-particles.

2-3. (Cancelled)

- (Original) The electrolysis cell of claim 1, wherein the slot height is from about 60% to 75% of the anode thickness.
- (Original) The electrolysis cell of claim 1, wherein the slot width is from about 9 mm to about 16 mm.

6-10. (Cancelled)

- (Original) The electrolysis cell of claim 1, where the slots have a roof portion
 that is parallel to the longitudinal axis of the carbon anode.
- 12. (Original) The electrolysis cell of claim 1, where the slots have a roof portion with an upward angle of from about 1° to about 5°.

 (New) A carbon anode for use in a metal electrolysis cell, the carbon anode comprising:

a carbon block comprising:

a top portion adapted to interconnect to overhead supports of an aluminum electrolysis cell;

a bottom portion adapted for submersion in an electrolyte bath of an aluminum electrolysis cell; and

at least two non-continuous slots passing through one side portion of the carbon block, wherein the slots pass through a part of the bottom portion of the carbon block, and wherein the slots are adapted to direct gases evolved during operation of a metal electrolysis cell toward a centerline of the metal electrolysis cell.

- (New) The carbon anode of Claim 13, wherein the non-continuous slots have a height of from about 45% to 80% of the thickness of the carbon block.
- (New) The carbon anode of Claim 13, wherein the non-continuous slots have a height of from about 60% to 75% of the thickness of the carbon block.
- 16. (New) The carbon anode of Claim 13, wherein the non-continuous slots have a width of from about 9 mm to about 16 mm.
- (New) The carbon anode of Claim 13, wherein the non-continuous slots have a width of from about 9 mm to about 12 mm.
- 18. (New) The carbon anode of Claim 13, wherein the non-continuous slots have a length that extends a majority of the length of the bottom portion of the carbon block.
- (New) The carbon anode of Claim 18, wherein the non-continuous slots have a length that extends less than the full length of the bottom portion of the carbon block.

- 20. (New) The carbon anode of Claim 13, wherein the slots comprise a roof portion, wherein the roof portion is parallel to the longitudinal access of the carbon anode.
- 21. (New) The carbon anode of Claim 13, wherein the slots comprise a roof portion, wherein the roof is angled relative to the longitudinal access of the carbon anode.
- 22. (New) The carbon anode of Claim 19, wherein the roof is angled from 1° to 5° relative to the longitudinal access of the carbon anode.
- (New) The carbon anode of Claim 13, wherein three side portions of the carbon block are free of the non-continuous slots.
- 24. (New) A method for producing aluminum in an aluminum electrolysis cell, the method comprising:

operating the aluminum electrolysis cell at a temperature of between about 900°C and 1000°C, the aluminum electrolysis cell containing a molten bath;

generating gas bubbles from the molten bath during the operating step; and directing the gas bubbles toward a centerline of the aluminum electrolysis cell via non-continuous slots located in a carbon anode of the aluminum electrolysis cell.

- 25. (New) The method of Claim 24, wherein the directing step comprises: flowing the gas bubbles from an underneath portion of the carbon anode through the non-continuous slots.
- 26. (New) The method of Claim 25, wherein the flowing step comprises turbulently flowing the gas bubbles, thereby increasing mixing of the molten bath.
- (New) The method of Claim 24, further comprising: contacting particulate alumina with the gas bubbles, thereby restricting agglomeration of incoming alumina particles.